

**$f_1(1510)$**

$I^G(J^{PC}) = 0^+(1^{++})$

OMMITTED FROM SUMMARY TABLE

See the minireview under  $\eta(1405)$ .

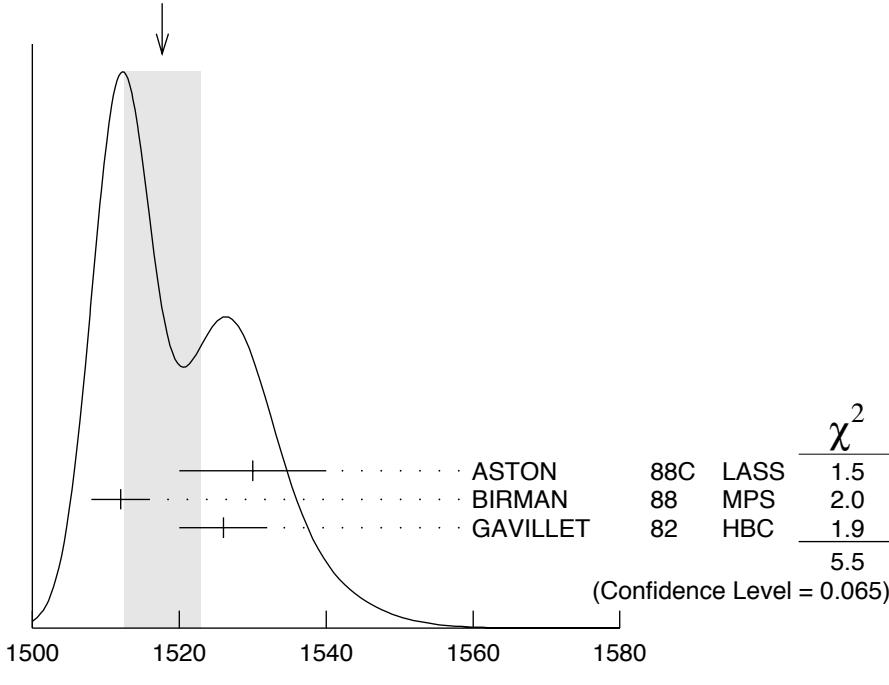
**$f_1(1510)$  MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b><math>1518 \pm 5</math> OUR AVERAGE</b>	Error includes scale factor of 1.7. See the ideogram below.			
1530 $\pm$ 10		ASTON	88C LASS	$11 K^- p \rightarrow K_S^0 K^\pm \pi^\mp \Lambda$
1512 $\pm$ 4	600	<sup>1</sup> BIRMAN	88 MPS	$8 \pi^- p \rightarrow K^+ \bar{K}^0 \pi^- n$
1526 $\pm$ 6	271	GAVILLET	82 HBC	$4.2 K^- p \rightarrow \Lambda K K \pi$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
$\sim 1525$		<sup>2</sup> BAUER	93B	$\gamma\gamma^* \rightarrow \pi^+ \pi^- \pi^0 \pi^0$

<sup>1</sup> From partial wave analysis of  $K^+ \bar{K}^0 \pi^-$  state.

<sup>2</sup> Not seen by AIHARA 88C in the  $K_S^0 K^\pm \pi^\mp$  final state.

WEIGHTED AVERAGE  
 $1518 \pm 5$  (Error scaled by 1.7)

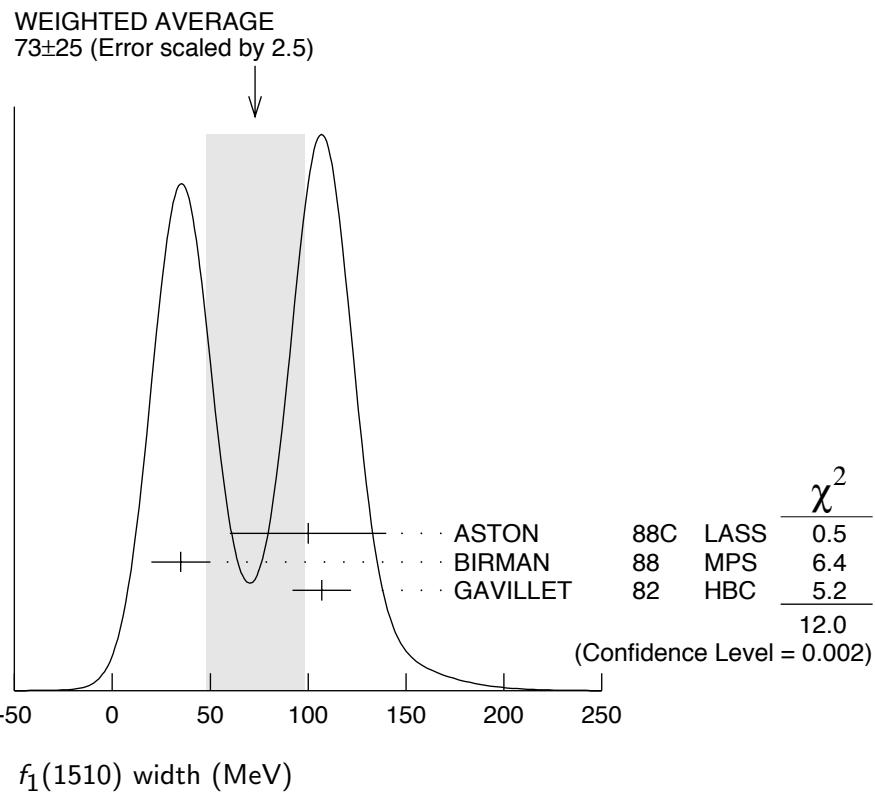


**$f_1(1510)$  WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>73±25 OUR AVERAGE</b>	Error includes scale factor of 2.5. See the ideogram below.			

100±40		ASTON	88C	LASS	11 $K^- p \rightarrow K_S^0 K^\pm \pi^\mp \Lambda$
35±15	600	<sup>3</sup> BIRMAN	88	MPS	8 $\pi^- p \rightarrow K^+ \bar{K}^0 \pi^- n$
107±15	271	GAVILLET	82	HBC	4.2 $K^- p \rightarrow \Lambda K K \pi$

<sup>3</sup> From partial wave analysis of  $K^+ \bar{K}^0 \pi^-$  state.

 **$f_1(1510)$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad K \bar{K}^*(892) + \text{c.c.}$	seen

 **$f_1(1510)$  REFERENCES**

BAUER	93B	PR D48 3976	D.A. Bauer <i>et al.</i>	(SLAC)
AIHARA	88C	PR D38 1	H. Aihara <i>et al.</i>	(TPC-2 $\gamma$ Collab.)
ASTON	88C	PL B201 573	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS) JP
BIRMAN	88	PRL 61 1557	A. Birman <i>et al.</i>	(BNL, FSU, IND, MASD) JP
GAVILLET	82	ZPHY C16 119	P. Gavillet <i>et al.</i>	(CERN, CDEF, PADO+)

———— OTHER RELATED PAPERS ——

ACHARD	07	JHEP 0703 018	P. Achard <i>et al.</i>	(L3 Collab.)
KANADA-EN...	05	PR D71 094005	Y. Kanada-Enyo, O. Morimatsu, T. Nishikawa	
ABELE	97G	PL B415 289	A. Abele <i>et al.</i>	
CLOSE	97D	ZPHY C76 469	F.E. Close <i>et al.</i>	
KING	91	NPBPS B21 11	E. King <i>et al.</i>	(FSU, BNL+)
AIHARA	88C	PR D38 1	H. Aihara <i>et al.</i>	(TPC-2 $\gamma$ Collab.)
BITYUKOV	84	SJNP 39 735	S. Bityukov <i>et al.</i>	(SERP)

Translated from YAF 39 1165.

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